Atty. Docket No.: MDhMORF-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: PENN, Sharron G. *et al.*

Serial No.:   09/774,203

Confirm. No.:   7320

Filed: January 29, 2001

For: METHODS AND APPARATUS FOR PREDICTING,
                 CONFIRMING, AND DISPLAYING FUNCTIONAL
                 INFORMATION DERIVED FROM GENOMIC SEQUENCE

PRELIMINARY AMENDMENT UNDER 37 C.F.R. § 1.115
DIRECTING ENTRY OF SEQUENCE LISTING
PROVIDED IN PAPER AND COMPUTER-READABLE FORM PURSUANT TO
37 C.F.R. §§ 1.821 ET SEQ.

Commissioner for Patents
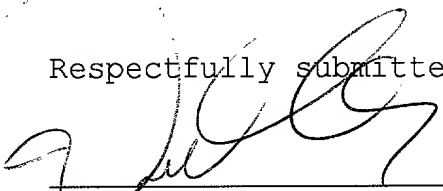Washington, D.C. 20231

Sir:

        In response to the Notice to File Missing parts of

Nonprovisional Application mailed May 18, 2001 with respect

to the above-referenced application, and further to

applicants' March 30, 2001 submission of Sequence Listing in

paper and computer-readable form, please amend applicants'

specification as follows.

IN THE SPECIFICATION:

Please add the Sequence Listing as filed March 30,
2001, a true and correct copy of which is enclosed herewith
on paper and in computer-readable format.

The contents of the enclosed paper copy and
enclosed computer readable copy of the Sequence Listing are
the same as one another and are the same as those filed
March 30, 2001, and include no new matter.

Respectfully submitted,

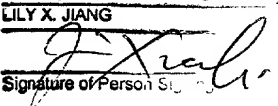1 JUNE 2001

Daniel M. Becker (Reg. No. 38,376)
Attorney for Applicants

c/o   FISH & NEAVE
      Customer No. 1473
      1251 Avenue of the Americas
      New York, NY 10020
      650.617.4000

2

<110> Penn, Sharron G.
      Rank, David R.
      Hanzel, David K.

<120> METHODS AND APPARATUS FOR PREDICTING, CONFIRMING, AND DISPLAYING
FUNCTIONAL INFORMATION DERIVED FROM GENOMIC SEQUENCE

<130> MDhMORF-1

<140> US 09/774,203
<141> 2001-01-29

<150> US 60/180,312
<151> 2000-02-04

<160> 6

<170> Molecular Dynamics Sequence Listing Engine

<210> 1
<211> 350
<212> DNA
<213> Homo sapiens

<400> 1
tttttttttt tgcaagcaga taaaggctta ttttactttta atggctgatc tatgtaatca 60
cggaggccag tatgtacaca caaagggggca gctttattt cttggtctct tcctccttgg 120
acaaagtctt gatgatctcc tccttcttgg cctggaggtg ctcttcatag ctcttgtgtg 180
cttccttggt cttagatctg cgggcctcag cctgatcagc caggagcttc ttgcgggcct 240
tgtctgcctt cagcttgtgg atgtgttcca tgagaatctg cttgttttt aacacattcc 300
tcttcacctt caggtacagg ctgtgataca tgcggcgatc aatcttctta 350

<210> 2
<211> 500
<212> DNA
<213> Homo sapiens

<400> 2
cagtccacat gggtacaagc cctgaaacct caaatgtaca tcagaattac ctgtggagtt 60
gtttttttt tttttttttt tttttttgcaa gcagataaag gcttattta ctttaatggc 120
tgatctatgt aatcacggag gccagtatgt acacacaaag gggcagcttt tatttcttgg 180
tctcttcctc cttggacaaa gtcttgatga tctcctcctt cttggcctgg aggtgctctt 240
catagctctt gtgtgcttcc ttggtcttag atctgcgggc ctcagcctga tcagccagga 300
gcttcttgcg ggccttgtct gccttcagct tgtggatgtg ttccatgaga atctgcttgt 360
ttttaacac attcctcttc accttcaggt acaggctgtg atacatgcgg cgatcaatct 420
tcttagattc acggtatctt ctgagcagcc ggtgcagaat cctcattctc ctcatccacg 480
tgaccttctc tggcattcgg 500

<210> 3
<211> 75
<212> DNA
<213> Homo sapiens

<400> 3
tatggtattt tcttatagca acaaaaaata aagatggggt ggagaaatat atttatagaa 60
agtattttt taagt 75

<210> 4
<211> 500
<212> DNA

<213> Homo sapiens

<400> 4
```
agtatggagc cccccttcatg ggacaggtgg ctttaagaag aggaagagag acctgagctg 60
gcagggactc tcttaccctc tcaccatgtg atgccctcca catgttatga tgcagcaaga 120
aggccctcac tggttgctag tgccatgctc ttcgacttcc cagcctgcag aactataaga 180
aataaactta ttttctttat aacttacaca tttatggtat tttcttatag caacaaaaaa 240
taaagatggg gtggagaaat atatttatag aaagtatttt tttaagtaaa tgagaaatta 300
gacataatgt ttttaactct agagaaattg aaaacagagc acagcacatc ggataaattc 360
aataactatc ttaagaatca gcaaaacaac atgcagatgg ctgattggca atagtttcag 420
taggcagatt ttgattaaaa taaagaaaaa cttttttaata attaaacctc tccttaaaac 480
attatgactt tatgaggtaa                                         500
```

<210> 5
<211> 125
<212> DNA
<213> Homo sapiens

<400> 5
```
tcttcattat taatcactct taaacctctt cttcaatctt ctcctcatgt ttaatttctc 60
ccttatctta tcttcataac tcagtgccat tctcccttca taacaacaga agctgacatt 120
ggagg                                                         125
```

<210> 6
<211> 500
<212> DNA
<213> Homo sapiens

<400> 6
```
tcatcctaat ttatataaag cacactacaa tcttaattta acaatccatt ccaaattcca 60
ataatctcca gtgttgagat attttttcca tacagcctaa agtgcacata tttagacatt 120
tctccaccca tctcctttgc acacgaaaag ttggtaaacg acctcattat actagtagcc 180
tttcatattc ttcattatta atcactctta aacctcttct tcaatcttct cctcatgttt 240
aatttctccc ttatcttatc ttcataactc agtgccattc tcccttcata acaacagaag 300
ctgacattgg aggagtatca gccaatgtgt accgctcttt ccctactgtg gtccactgtc 360
accccctaact attttatgaa taggattcct atttctagag aagaaaacgc agacttggag 420
aggttgagta agttgcctag gaatgtgaag ctggggtgta gcagaagggg gtcgacgtca 480
ggtctggata cctcaccgtg                                         500
```

2